

## INTERNATIONAL SEARCH REPORT

Application No

PCT/NL2004/000750

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/70 A61K31/732 A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, MEDLINE, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE WPI Section Ch, Week 198307 Derwent Publications Ltd., London, GB; Class A96, AN 1983-16545K XP002277416 & JP 58 004724 A (MEIJI MILK PROD CO LTD) 11 January 1983 (1983-01-11) abstract	1-19
Y	DATABASE WPI Section Ch, Week 200332 Derwent Publications Ltd., London, GB; Class B03, AN 2003-339110 XP002277417 & KR 2002 094 725 A (KT & G CO LTD) 18 December 2002 (2002-12-18) abstract	1-19



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"G" document member of the same patent family

Date of the actual completion of the international search

21 April 2005

Date of mailing of the international search report

25. 05. 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE WPI  Section Ch, Week 199249  Derwent Publications Ltd., London, GB;  Class A96, AN 1992-403412  XP002277418  &amp; JP 04 300888 A (DAINIPPON INK &amp; CHEM KK)  23 October 1992 (1992-10-23)  abstract</p>	1-19
X	-----	20,22
Y	<p>DATABASE WPI  Section Ch, Week 199441  Derwent Publications Ltd., London, GB;  Class B04, AN 1994-329946  XP002277419  &amp; JP 06 256208 A (FOOD DESIGN GIJUTSU  KENKYU KUMIAI)  13 September 1994 (1994-09-13)  abstract</p>	1-19
Y	<p>DATABASE WPI  Section Ch, Week 199624  Derwent Publications Ltd., London, GB;  Class B04, AN 1996-236112  XP002277420  &amp; JP 08 092303 A (SHOWA SANGYO CO)  9 April 1996 (1996-04-09)  abstract</p>	1-19
Y	<p>ZAPOROZHETS T S ET AL: "[Immunomodulating  properties of pectin from seawater grass  Zostera]"  ANTIBIOTIKI I KHIMIOTERAPIIA = ANTIBIOTICS  AND CHEMOTERAPY [SIC] / MINISTERSTVO  MEDITSINSKOI I MIKROBIOLOGICHESKOI  PROMYSHLENNOSTI SSSR. USSR AUG 1991,  vol. 36, no. 8, August 1991 (1991-08),  pages 31-34, XP009028863  ISSN: 0235-2990  abstract</p>	1-19
Y	<p>FR 2 781 673 A (UNIV PICARDIE)  4 February 2000 (2000-02-04)  page 3, line 5 - page 4, line 6; claims</p>	1-19
Y	<p>PATENT ABSTRACTS OF JAPAN  vol. 012, no. 159 (C-495),  14 May 1988 (1988-05-14)  &amp; JP 62 270532 A (NODA SHIYOKUKIN KOGYO  KK;OTHERS: 01),  24 November 1987 (1987-11-24)  abstract</p>	1-19
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KULKARNI SAVITA ET AL: "Immunostimulant activity of inulin isolated from Saussurea lappa roots." INDIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 63, no. 4, July 2001 (2001-07), pages 292-294, XP009029650 ISSN: 0250-474X abstract page 294, left-hand column, paragraph 2 - right-hand column, paragraph END -----	1-19
X	DATABASE EPODOC EUROPEAN PATENT OFFICE, THE HAGUE, NL; XP002277425 abstract & KR 9 711 556 B (RURAL DEV ADMIN) 12 July 1997 (1997-07-12) -----	1-19
X	US 4 412 946 A (SALLES MARIE-FRANCE ET AL) 1 November 1983 (1983-11-01) column 1, lines 23-46; claims -----	1-19
Y	WO 01/33975 A (BIJLSMA PIETER BRANDT ;GROOT JACQUES ALPHONS (NL); TIMMERMANS JOHA) 17 May 2001 (2001-05-17) page 1, line 29 - page 4, line 30; claims -----	1-19
Y	WO 00/57727 A (BIJLSMA PIETER BRANDT ;GROOT JACQUES ALPHONS (NL); TIMMERMANS JOHA) 5 October 2000 (2000-10-05) page 2, line 27 - page 4, line 15; examples -----	1-19
Y	WO 02/47703 A (HAGEMAN ROBERT JOHAN JOSEPH ;NUTRICIA N V (NL); GRAUS YVO MARIA FR) 20 June 2002 (2002-06-20) page 10, line 3 - page 11, line 19 -----	1-19
Y	US 6 573 245 B1 (MARCIONI DANTE J) 3 June 2003 (2003-06-03) column 2, lines 16-24; claims 14,30 -----	1-19
X	US 2003/022863 A1 (STAHL BERND ET AL) 30 January 2003 (2003-01-30) cited in the application the whole document -----	1-19
X	WO 02/42484 A (SUEDZUCKER AKTIENGESELLSCHAFT MANNHEIM/OCHSENFURT; KUNZ, MARKWART; MUN) 30 May 2002 (2002-05-30) cited in the application page 12, line 13 - page 13, line 11; examples -----	20
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 12, 25 December 1997 (1997-12-25) & JP 09 208474 A (POLA CHEM IND INC), 12 August 1997 (1997-08-12) abstract -----	20
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06, 30 June 1997 (1997-06-30) & JP 09 048732 A (POLA CHEM IND INC), 18 February 1997 (1997-02-18) abstract -----	20
X	GB 1 327 740 A (RECHERCHE ET INDUSTRIE THERAPEUTIQUES) 22 August 1973 (1973-08-22) page 1, lines 16-70 page 4, lines 18-50; claims; examples -----	20
X	EP 0 406 685 A (HOECHST AKTIENGESELLSCHAFT) 9 January 1991 (1991-01-09) page 2, line 54 - page 3, line 7; claims -----	20,22

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application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1-20, 22
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

A combination of an acid oligosaccharide and a neutral oligosaccharide useful for the treatment and/or prevention of an immune system related disorder.

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2. claim: 20 and 22

Acid oligosaccharide useful for the treatment and/or prevention of an immune system related disorder

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3. claim: 21

Acid oligosaccharide useful for the treatment of cancer

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